

## EAST Search History

| Ref # | Hits     | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|----------|---|---|------------------|---------|------------------|
| L6    | 395      | constellation near2 rotation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:14 |
| L7    | 25402902 | ((@rlad<="20031126")(@ad<="20031126"))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:13 |
| L8    | 323      | 6 and 7   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:13 |
| L9    | 85       | 8 and satellite   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:14 |
| L10   | 30       | (degree near3 constellation near2 rotation)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:23 |
| L11   | 27       | 10 and 7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:15 |
| L12   | 7        | 11 and (error near2 correction)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:23 |
| L13   | 0        | (degree near3 constellation near2 rotation) same (error near2 correct\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/03 11:40 |

## EAST Search History

|     |          |   |   |    |    |                  |
|-----|----------|---|---|----|----|------------------|
| L14 | 285      | (phase near2 estimate) same<br>((error near2 correct\$3) fec)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:43 |
| L15 | 255      | 14 and 7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:41 |
| L16 | 65       | 15 and satellite  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:41 |
| L17 | 16       | (phase near2 estimate) same<br>((error near2 correct\$3) fec) same<br>constellation | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:43 |
| L18 | 12       | 17 and 7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:43 |
| S1  | 25295490 | ((@rlad<="20031126")(@ad<="20<br>031126"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 09:35 |
| S2  | 4        | synchronous near2 communication   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/26 08:56 |
| S3  | 0        | downstream near2 ecovery  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/26 08:56 |

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|     |       |                           |   |    |    |                  |
|-----|-------|---------------------------|---|----|----|------------------|
| S4  | 1417  | downstream near2 recovery | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/26 09:06 |
| S5  | 4403  | hub with nodes            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 07:51 |
| S6  | 30699 | transponder               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 08:36 |
| S8  | 4406  | hub with nodes            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 08:44 |
| S9  | 150   | S6 and S8                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:11 |
| S10 | 27573 | symbols same frames       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:11 |
| S12 | 15175 | symbol with frames        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 11:00 |
| S13 | 6     | S9 and S12                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:19 |

## EAST Search History

|     |          |  |   |    |    |                  |
|-----|----------|--|---|----|----|------------------|
| S14 | 3032698  | symbol same2 frames                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:25 |
| S15 | 69       | S9 and S14                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:25 |
| S16 | 76       | S9 and satellite                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:39 |
| S17 | 112      | constellation adj rotation             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:39 |
| S18 | 25296353 | ((@rlad<="20031126")(@ad<="20031126")) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 09:39 |
| S19 | 78       | S17 and S18                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 10:20 |
| S20 | 0        | S19 and S8                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 10:20 |
| S21 | 2        | S19 and hub                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 10:20 |

## EAST Search History

|     |          |  |   |    |    |                  |
|-----|----------|--|---|----|----|------------------|
| S22 | 12       | S12 and S17                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29 11:01 |
| S23 | 9        | S22 and S18                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 07:45 |
| S25 | 16148    | qpsk                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S26 | 7521     | bpsk                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S27 | 4600     | S25 and S26                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S28 | 25298635 | ((@rlad<="20031126")(@ad<="20<br>031126")) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S29 | 3750     | S27 and S28                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S30 | 3587     | S25 with S26                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S31 | 15190 | symbols with frame  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:40 |
| S32 | 4415  | hub with nodes  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:41 |
| S33 | 4     | S30 and S31 and S32   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:41 |
| S34 | 0     | S33 and S28   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:41 |
| S35 | 10    | (US-20050053033-\$ or<br>US-20020105976-\$ or<br>US-20050153655-\$ or<br>US-20050136832-\$ or<br>US-20040218680-\$ or<br>US-20020118654-\$).did. or<br>(US-6834039-\$ or US-7080398-\$ or<br>US-7068616-\$ or US-6535716-\$).<br>did. | US-PGPUB;<br>USPAT  | OR | ON | 2007/01/31 08:41 |
| S36 | 16563 | S35 abd S27   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:41 |
| S37 | 1     | S35 and S27   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:42 |
| S38 | 284   | rain adj fade   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:42 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S39 | 35  | S27 and S38  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:42 |
| S40 | 31  | S39 and S28  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 08:56 |
| S41 | 437 | (fade (fad\$3 near2 environment\$3<br>near2 condition)) with (( error adj<br>rate) ber ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 10:11 |
| S42 | 289 | S41 and S28  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 10:13 |
| S43 | 46  | S42 and S27  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/31 10:13 |
| S44 | 2   | "11161345"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/02 10:03 |
| S45 | 16  | "6006081" "4792839"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/02 10:04 |
| S46 | 47  | "6006081" "4792939"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/02 10:04 |

## EAST Search History

|     |          |   |   |    |    |                  |
|-----|----------|---|---|----|----|------------------|
| S47 | 38       | "4792939"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/02 10:04 |
| S48 | 25314767 | ((@rlad<="20031126")(@ad<="20031126"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 09:35 |
| S49 | 41       | ("4688216" "4722083" "4763325" "4858225" "5051989" "5768266" "5790939" "6097706" "6104708" "6122293" "6198734" "6212240" "6301310" "6351499" "6377561" "6381227" "6434361" "6539003" "6549530" "6625130" "6665829").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 15:49 |
| S50 | 25314767 | ((@rlad<="20031126")(@ad<="20031126"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 14:19 |
| S51 | 221      | symbols and modulation and<br>((forward adj error adj correct\$4)<br>fec) and frame and hub and<br>satellite and node   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 14:21 |
| S52 | 214      | S50 and S51   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 14:22 |
| S53 | 117      | S52 and "370".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/27 14:22 |
| S54 | 21       | ("4688216" "4722083" "4763325" "4858225" "5051989" "5768266" "5790939" "6097706" "6104708" "6122293" "6198734" "6212240" "6301310" "6351499" "6377561" "6381227" "6434361" "6539003" "6549530" "6625130" "6665829").PN. | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/27 15:49 |

## EAST Search History

|     |          |   |   |    |    |                  |
|-----|----------|---|---|----|----|------------------|
| S55 | 10       | S54 and symbols and frame   | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/27 15:49 |
| S56 | 12079    | (forward adj error adj correction)<br>fec   | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/27 15:50 |
| S57 | 4        | S55 and S56   | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/27 15:50 |
| S58 | 4        | S57 and ((bit near3 error near3<br>rate) ber)   | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/27 15:51 |
| S59 | 21       | ("4688216" "4722083" "4763325" "<br>4858225" "5051989" "5768266" "57<br>90939" "6097706" "6104708" "6122<br>293" "6198734" "6212240" "630131<br>0" "6351499" "6377561" "6381227"<br> "6434361" "6539003" "6549530" "<br>6625130" "6665829").PN. | US-PGPUB;<br>USPAT  | OR | ON | 2007/02/28 08:42 |
| S60 | 25402166 | ((@rlad<="20031126")(@ad<="20<br>031126"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:39 |
| S61 | 211790   | satellite   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:39 |
| S62 | 3659     | symbols near modulation   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:39 |
| S63 | 3659     | symbol near modulation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:40 |
| S64 | 42       | S61 same S63  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:40 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S65 | 35  | S64 and S60  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:42 |
| S66 | 0   | S64 same hub   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:42 |
| S67 | 14  | (satellite same (hub near S62 node)) and (symbol same (multiple near5 modulation)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:45 |
| S68 | 13  | S67 and S60  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:44 |
| S69 | 0   | (satellite same (hub near8 node)) and (symbol same (multiple near5 modulation))    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:45 |
| S70 | 7   | (satellite and (hub near8 node)) and (symbol same (multiple near5 modulation))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:45 |
| S71 | 7   | S70 and S60  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:48 |
| S72 | 742 | symbols same (second near3 modulation)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:48 |

## EAST Search History

|     |         |   |   |    |    |                  |
|-----|---------|---|---|----|----|------------------|
| S73 | 0       | S72 and (satellite same hub same node)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:49 |
| S74 | 136     | S72 and (satellite)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:49 |
| S75 | 111     | S74 and S60   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:49 |
| S76 | 1172244 | S75 ad hub  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:49 |
| S77 | 17      | S75 and hub   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 11:01 |
| S78 | 39      | S75 and node  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 10:49 |
| S79 | 771     | (second different) near2 ((forward near2 error near2 correction) fec) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 11:54 |
| S80 | 618     | S79 and S60   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/02 11:14 |

## EAST Search History

|     |          |  |   |    |    |                  |
|-----|----------|--|---|----|----|------------------|
| S81 | 773      | (second different) near2 ((forward<br>near2 error near2 correction) fec) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/02 11:14 |
| S82 | 54       | S81 same satellite   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/02 11:14 |
| S83 | 25402902 | ((@rlad<="20031126")(@ad<="20<br>031126"))                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/02 11:16 |
| S84 | 29       | S82 and S83  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/03 11:13 |